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## THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor

Peter Hampden Clifton

Appln. No.

10/771,959

Filed

February 4, 2004

Title

TUNNEL MAGNETO-RESISTIVE SENSOR

WITH OXIDE BARRIER LAYER

Docket No.

I69.12-0610

AMENDMENT AND RESPONSE

Mail Stop Amendment Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450 SENT VIA EXPRESS MAIL

Express Mail No.: EV 760047605 US

Group Art Unit: 2832

Examiner: Tu Ba Hoang

## **INTRODUCTION**

This is in response to the Office Action mailed on June 19, 2006. Please amend the above-identified application as follows:

First Named Inventor	1	SIPE					Filing	Date			February 4, 2004		
Examiner Name	AUG 2 3 2006						First Named Inventor				Peter H. Clifton		
Total Amonth Payment \$00.00							Group Art Unit				2832		
Total Amonth Payment \$00.00								ner N	ame		Tu Ba Hoang		
NETHOD OF PAYMENT (Check One)	Total Amount of Payment \$00.00						Atty. Docket Number				169.12-0610		
Large Entity   Page								FEE CALCULATION (Continued)					
Deposit Account No.11-10982, Deposit No.11-10982, Dep	1. <b>[X]</b> The						3. AE	DITIO	NAL F	EES			
Check Enclosed   FEE CALCULATION	required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account No.11-0982. Deposit Account Name: Kinney & Lange, P.A. A duplicate copy of this communication is enclosed.							Fee	Fee	Fee	Fee Description	Fee pa	
SASIC FILING FEE   SLAM FEES   SLAM FEES   SLAM FEES   SLOW FEES   SLAM FEES   SLUBING FEE   SEARCH FEES   SLAM FEES   SLUBING FEE   SEARCH FEES   SLAM FEES   SLUBING FEE   SCANCH FEES   SLOW FEED   S	2. [] Che	eck Enclo	sed				1051	130	2051	65	Surcharge - Late filing fee or oath		
1. BASIC FILING FEE								50	2052	25		,	
Appn	1. BASIC FILING FEE							130	1053	130	Non-English specification		
Design   200   100   100   50   130   65   5   200   200   200   600   300   5   200   200   600   300   5   200							1812	2,520	1812	2,520	For Filing a Request for Reexamination		
Design   200 / 100   100 / 50   130 / 65	Appn. Type PD.	FEE/SMA	LL FEE/S	<u>SMALL</u>	FEE/SMALL F	-EES	1251	120	2251	60	Extension for reply within first month		
Relissue 300 / 150 500 / 250 600 / 300 — Provisional 200 / 100 40 / 40 40 — Subtotal (1) \$00.000  2. EXTRA CLAIM FEES Number Prior Extra Fee from Fee Paid Below Total ** - * = * * * * * * = * * Indep. ** - * = * * * * * * * * * * * * * * Indep. ** - * * = * * * * * * * * * * * * * *	Utility	300 / 150	500 /	250	200 / 100	_	1252	450	2252	225	Extension for reply within second month		
1254   1,590   2254   795   Extension for reply within fourth month	Design	200 / 100				-	1253	1,020	2253	510	Extension for reply within third month		
Subtotal (1) \$00.00	Reissue					-	1254	1,590	2254	795	Extension for reply within fourth month		
2. EXTRA CLAIM FEES  Number Prior Extra Fee from Fee Paid Below  Total * - * = * * X * = * * * * * = * * * * * * = * * * *	Provisional	200 / 100	-0- /	-0-	-0- / -0-		1255	2,160	2255	1,080	Extension for reply within fifth month		
Number   Prior   Extra   Fee from Fee Paid   Below	0 EVED	A CL AIN			<u></u>	Subtotal (1) \$00.00	1402	500	2402	250	Filing a brief in support of an appeal	,	
Total	Z. EXIK	Number		Extra		ee Paid	1403	1,000	2403	500	Request for oral hearing		
Multiple Dependent Claims _ =	Total	<u>*</u> -	<u>*</u> =	<u>*</u> x	<u>*</u> =	*	1814	130	2814	65	Terminal Disclaimer Fee		
Insert 3 and 20, or number previously paid if greater, Reissue see below Large Entity Small Entity Fee Fee Fee Fee Fee Pee Description Code (\$) Code (\$)  1202 50 2202 25 Claims in excess of 20 1201 200 2201 100 Independent claims in excess of 20 1203 360 2203 180 Multiple Dependent Claims 1204 200 2204 100 Reissue Independent Claims Over Original Patent 1205 50 2205 25 Reissue claims in excess of 20 and over original patent 206 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R. 1.16(s).  Subtotal (2) \$00.00  1501 1.400 2501 700 Utility/Reissue issue fee  1502 800 2502 400 Design issue fee  1600 130 1460 130 Petitions to the Commissioner  1807 50 1807 50 Petitions related to provisional applications 1806 180 1806 180 Submission of Information Disclosure Statement  8021 40 8021 40 Recording each patent assignment per property (times number of properties)  1801 790 2801 395 Request for Continued Examination (RCE)  Cher fee (specify)  Subtotal (3) \$00.00	Indep.	<u>*</u> -	* =	<u>*</u> x	<u>*</u> = <u>*</u>		1452	500	2452	250	Petition to revive - unavoidable	•	
below Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Obescription  Code (\$) Code (\$)  1202 50 2202 25 Claims in excess of 20 1201 200 2201 100 Independent claims in excess of 30 1203 360 2203 180 Multiple Dependent Claims 1204 200 2204 100 Reissue Independent Claims 1205 50 2205 25 Reissue claims in excess of 20 and over original patent 1205 50 2205 25 Reissue claims in excess of 20 and over original patent 1206 3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R. 1.16(s).  Subtotal (2) \$00.00  Subtotal (2) \$00.00  Subtotal (2) \$00.00  Subtotal (3) \$00.00	Multiple De	pendent Cla	aims		<u> </u>	_	1453	1,500	2453	750	Petition to revive - unintentional		
Fee Fee Fee Fee Fee Fee Fee Code (\$)  Code (\$)	Insert 3 and 20, or number previously paid if greater; Reissue see below						1501	1,400	2501	700	Utility/Reissue issue fee		
1202 50 2202 25 Claims in excess of 20 Independent claims in excess of 3 Independent claims over Original Patent Independent Indepen	Fee	Fee	Fee	Fee	Description		1502	800	2502	400	Design issue fee		
1201 200 2201 100 Independent claims in excess of 3 1203 360 2203 180 Multiple Dependent Claim 1204 200 2204 100 Reissue Independent Claims 1205 50 2205 25 Reissue claims in excess of 20 1206 and over original patent 1207 3. APPLICATION SIZE FEE 18 the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R. 1.16(s).  Subtotal (2) \$00.00	<del></del> .				Claims in av	coors of 20	1460	130	1460	130	Petitions to the Commissioner		
1203 360 2203 180 Multiple Dependent Claim 1204 200 2204 100 Reissue Independent Claims Over Original Patent 1205 50 2205 25 Reissue claims in excess of 20 and over original patent 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R. 1.16(s). \$00.00  Subtotal (2) \$00.00	1202				Independent		1807	50	1807	50	Petitions related to provisional applications		
1205 50 2205 25 Reissue claims in excess of 20 and over original patent  3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R.  1.16(s). \$00.00  Subtotal (2) \$00.00  Subtotal (2) \$00.00  Subtotal (2) \$00.00	1203 1204				Multiple Dep Reissue Inde	ependent Claims	1806	180	1806	180			
3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R.  1.16(s). \$00.00  Subtotal (2) \$00.00  Subtotal (2) \$00.00  Subtotal (2) \$00.00	1205	50	2205	25	Reissue clai	ms in excess of 20						•	
application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R. 1.16(s).  Subtotal (2) \$00.00  Subtotal (2) \$00.00  Subtotal (2) \$00.00						- '	8021	40	8021	40		•	
Subtotal (2) \$00.00   Other fee (specify) Subtotal (3) \$00.00	application size fee due is \$250 (\$125 small) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 C.F.R.							79	0 280	1 395		-	
Subtotal (3) \$00.0	- 11.	· · ·											
Signature Reg. No. 26.047			-		·	······································	]				Subtotal (	3) \$00.0	
Signature Reg. No. 26.047			· -		_		<u> </u>		····				
	Signature		1)	CF,		Reg. No					26.047		

Application No.

**FEE TRANSMITTAL** 

10/771,959

 David R. Fairbairn
 Deposit Account No.
 11-0982